

PCT/09 RUSH #4

CRF Errors Corrected by the STIC Systems Branch

Serial Number:

09/806,536A

ENTERED

CRF Processing Date:

8/27/2002

Edited by:

Verified by:

(STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:  
\_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:  
\_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  
\_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  
\_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:  
\_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:  
\_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically:  
\_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:  
\_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: corrected responses on <1607 and <1707 lines> (switched them)  
\_\_\_\_\_
- ☐ grouped <1507 and <1517 lines accordingly  
\_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT09

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/806,536A

TIME: 18:13:15

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\08272002\I806536A.raw

p. 6

```

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
5     LAL, Preeti
6     GUEGLER, Karl J.
7     GORGONE, Gina A.
8     CORLEY, Neil C.
9     BAUGHN, Mariah R.
10    TANG, Y. Tom
11    HILLMAN, Jennifer L.
12    BANDMAN, Olga
13    AZIMZAI, Yalda
14    AU-YOUNG, Janice
15    YUE, Henry
16    LU, Dyung Aina M.
17    YANG, Junming
19 <120> TITLE OF INVENTION: OXIDOREDUCTASE MOLECULES
21 <130> FILE REFERENCE: PF-0610 PCT
C--> 23 <140> CURRENT APPLICATION NUMBER: US/09/806,536A
C--> 24 <141> CURRENT FILING DATE: 2002-08-27
26 <150> PRIOR APPLICATION NUMBER: 09/167,519
27 <151> PRIOR FILING DATE: 1998-10-06
28 <150> PRIOR APPLICATION NUMBER: unassigned
29 <151> PRIOR FILING DATE: 1998-10-06
30 <150> PRIOR APPLICATION NUMBER: 09/204,999
31 <151> PRIOR FILING DATE: 1998-12-02
W--> 32 <150> PRIOR APPLICATION NO: unassigned
33 <151> PRIOR FILING DATE: 1998-12-02
34 <150> PRIOR APPLICATION NUMBER: 60/123,911
35 <151> PRIOR FILING DATE: 1999-10-03
37 <160> NUMBER OF SEQ ID NOS: 30
39 <170> SOFTWARE: PERL Program
42 <210> SEQ ID NO: 1
43 <211> LENGTH: 280
44 <212> TYPE: PRT
45 <213> ORGANISM: Homo sapiens
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <223> OTHER INFORMATION: Incyte ID No.: 000746CD1
51 <400> SEQUENCE: 1
52 Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val
53   1           5           10           15
54 Leu Leu Leu Trp Gly Ala Pro Trp Thr His Gly Arg Arg Ser Asn
55           20           25           30
56 Val Arg Val Ile Thr Asp Glu Asn Trp Arg Glu Leu Leu Glu Gly

```

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DATE: 08/27/2002

PATENT APPLICATION: US/09/806,536A

TIME: 18:13:15

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\08272002\I806536A.raw

```

57          35          40          45
58 Asp Trp Met Ile Glu Phe Tyr Ala Pro Trp Cys Pro Ala Cys Gln
59          50          55          60
60 Asn Leu Gln Pro Glu Trp Glu Ser Phe Ala Glu Trp Gly Glu Asp
61          65          70          75
62 Leu Glu Val Asn Ile Ala Lys Val Asp Val Thr Glu Gln Pro Gly
63          80          85          90
64 Leu Ser Gly Arg Phe Ile Ile Thr Ala Leu Pro Thr Ile Tyr His
65          95         100         105
66 Cys Lys Asp Gly Glu Phe Arg Arg Tyr Gln Gly Pro Arg Thr Lys
67         110         115         120
68 Lys Asp Phe Ile Asn Phe Ile Ser Asp Lys Glu Trp Lys Ser Ile
69         125         130         135
70 Glu Pro Val Ser Ser Trp Phe Gly Pro Gly Ser Val Leu Met Ser
71         140         145         150
72 Ser Met Ser Ala Leu Phe Gln Leu Ser Met Trp Ile Arg Thr Cys
73         155         160         165
74 His Asn Tyr Phe Ile Glu Asp Leu Gly Leu Pro Val Trp Gly Ser
75         170         175         180
76 Tyr Thr Val Phe Ala Leu Ala Thr Leu Phe Ser Gly Leu Leu Leu
77         185         190         195
78 Gly Leu Cys Met Ile Phe Val Ala Asp Cys Leu Cys Pro Ser Lys
79         200         205         210
80 Arg Arg Arg Pro Gln Pro Tyr Pro Tyr Pro Ser Lys Lys Leu Leu
81         215         220         225
82 Ser Glu Ser Ala Gln Pro Leu Lys Lys Val Glu Glu Glu Gln Glu
83         230         235         240
84 Ala Asp Glu Glu Asp Val Ser Glu Glu Glu Ala Glu Ser Lys Glu
85         245         250         255
86 Gly Thr Asn Lys Asp Phe Pro Gln Asn Ala Ile Arg Gln Arg Ser
87         260         265         270
88 Leu Gly Pro Ser Leu Ala Thr Asp Lys Ser
89         275         280
94 <210> SEQ ID NO: 2
95 <211> LENGTH: 166
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapiens
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <223> OTHER INFORMATION: Incyte ID No.: 2472577CD1
103 <400> SEQUENCE: 2
104 Met Gln Glu Ile Asn Gln Asn Leu Ala Glu Glu Ala Gly Leu Asn
105 1          5          10          15
106 Ile Thr His Ile Cys Leu Pro Pro Asp Ser Ser Glu Ala Glu Ile
107          20          25          30
108 Ile Asp Glu Ile Leu Lys Ile Asn Glu Asp Thr Arg Val His Gly
109          35          40          45
110 Leu Ala Leu Gln Ile Ser Glu Asn Leu Phe Ser Asn Lys Val Leu
111          50          55          60

```

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/806,536A

TIME: 18:13:15

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\08272002\I806536A.raw

```

112 Asn Ala Leu Lys Pro Glu Lys Asp Val Asp Gly Val Thr Asp Ile
113          65          70          75
114 Asn Leu Gly Lys Leu Val Arg Gly Asp Ala His Glu Cys Phe Val
115          80          85          90
116 Ser Pro Val Ala Lys Ala Val Ile Glu Leu Leu Glu Lys Ser Val
117          95          100         105
118 Gly Val Asn Leu Asp Gly Lys Lys Ile Leu Val Val Gly Ala His
119          110         115         120
120 Gly Ser Leu Glu Ala Ala Leu Gln Cys Leu Phe Gln Arg Lys Gly
121          125         130         135
122 Ser Met Thr Met Ser Ile Gln Trp Lys Thr Arg Gln Leu Gln Ser
123          140         145         150
124 Lys Thr Glu Ser Arg Ser Val Thr Arg Leu Glu Cys Arg Arg Val
125          155         160         165
126 Ile
131 <210> SEQ ID NO: 3
132 <211> LENGTH: 319
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <223> OTHER INFORMATION: Incyte ID No.: 2160405CD1
140 <400> SEQUENCE: 3
141 Met Ala Ser Ser Ala Ala Gly Cys Val Val Ile Val Gly Ser Gly
142   1          5          10          15
143 Val Ile Gly Arg Ser Trp Ala Met Leu Phe Ala Ser Gly Gly Phe
144          20          25          30
145 Gln Val Lys Leu Tyr Asp Ile Glu Gln Gln Gln Ile Arg Asn Ala
146          35          40          45
147 Leu Glu Asn Ile Arg Lys Glu Met Lys Leu Leu Glu Gln Ala Gly
148          50          55          60
149 Ser Leu Lys Gly Ser Leu Ser Val Glu Glu Gln Leu Ser Leu Ile
150          65          70          75
151 Ser Gly Cys Pro Asn Ile Gln Glu Ala Val Glu Gly Ala Met His
152          80          85          90
153 Ile Gln Glu Cys Val Pro Glu Asp Leu Glu Leu Lys Lys Lys Ile
154          95          100         105
155 Phe Ala Gln Leu Asp Ser Ile Ile Asp Asp Arg Val Ile Leu Ser
156          110         115         120
157 Ser Ser Thr Ser Cys Leu Met Pro Ser Lys Leu Phe Ala Gly Leu
158          125         130         135
159 Val His Val Lys Gln Cys Ile Val Ala His Pro Val Asn Pro Pro
160          140         145         150
161 Tyr Tyr Ile Pro Leu Val Glu Leu Val Pro His Pro Glu Thr Ala
162          155         160         165
163 Pro Thr Thr Val Asp Arg Thr His Ala Leu Met Lys Lys Ile Gly
164          170         175         180
165 Gln Cys Pro Met Arg Val Gln Lys Glu Val Ala Gly Phe Val Leu
166          185         190         195

```

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/806,536A

TIME: 18:13:15

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\08272002\I806536A.raw

```

167 Asn Arg Leu Gln Tyr Ala Ile Ile Ser Glu Ala Trp Arg Leu Val
168                200                205                210
169 Glu Glu Gly Ile Val Ser Pro Ser Asp Leu Asp Leu Val Met Ser
170                215                220                225
171 Glu Gly Leu Gly Met Arg Tyr Ala Phe Ile Gly Pro Leu Glu Thr
172                230                235                240
173 Met His Leu Asn Ala Glu Gly Met Leu Ser Tyr Cys Asp Arg Tyr
174                245                250                255
175 Ser Glu Gly Ile Lys His Val Leu Gln Thr Phe Gly Pro Ile Pro
176                260                265                270
177 Glu Phe Ser Arg Ala Thr Ala Glu Lys Val Asn Gln Asp Met Cys
178                275                280                285
179 Met Lys Val Pro Asp Asp Pro Glu His Leu Ala Ala Arg Arg Gln
180                290                295                300
181 Trp Arg Asp Glu Cys Leu Met Arg Leu Ala Lys Leu Lys Ser Gln
182                305                310                315
183 Val Gln Pro Gln
188 <210> SEQ ID NO: 4
189 <211> LENGTH: 318
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <223> OTHER INFORMATION: Incyte ID No.: 2591695CD1
197 <400> SEQUENCE: 4
198 Met Ala Pro Trp Ala Glu Ala Glu His Ser Ala Leu Asn Pro Leu
199   1                5                10                15
200 Arg Ala Val Trp Leu Thr Leu Thr Ala Ala Phe Leu Leu Thr Leu
201                20                25                30
202 Leu Leu Gln Leu Leu Pro Pro Gly Leu Leu Pro Gly Cys Ala Ile
203                35                40                45
204 Phe Gln Asp Leu Ile Arg Tyr Gly Lys Thr Lys Cys Gly Glu Pro
205                50                55                60
206 Ser Arg Pro Ala Ala Cys Arg Ala Phe Asp Val Pro Lys Arg Tyr
207                65                70                75
208 Phe Ser His Phe Tyr Ile Ile Ser Val Leu Trp Asn Gly Phe Leu
209                80                85                90
210 Leu Trp Cys Leu Thr Gln Ser Leu Phe Leu Gly Ala Pro Phe Pro
211                95                100               105
212 Ser Trp Leu His Gly Leu Leu Arg Ile Leu Gly Ala Ala Gln Phe
213                110               115               120
214 Gln Gly Gly Glu Leu Ala Leu Ser Ala Phe Leu Val Leu Val Phe
215                125               130               135
216 Leu Trp Leu His Ser Leu Arg Arg Leu Phe Glu Cys Leu Tyr Val
217                140               145               150
218 Ser Val Phe Ser Asn Val Met Ile His Val Val Gln Tyr Cys Phe
219                155               160               165
220 Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr Val Leu Ser Gln
221                170               175               180

```

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/806,536A

TIME: 18:13:15

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\08272002\I806536A.raw

```

222 Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly Lys Asn Leu
223          185          190          195
224 Leu Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe
225          200          205          210
226 Ile Trp Ser Ser Ala His Gln Tyr Lys Cys His Val Ile Leu Gly
227          215          220          225
228 Asn Leu Arg Lys Asn Lys Ala Gly Val Val Ile His Cys Asn His
229          230          235          240
230 Arg Ile Pro Phe Gly Asp Trp Phe Glu Tyr Val Ser Ser Pro Asn
231          245          250          255
232 Tyr Leu Ala Glu Leu Met Ile Tyr Val Ser Met Ala Val Thr Phe
233          260          265          270
234 Gly Phe His Asn Leu Thr Trp Trp Leu Val Val Thr Asn Val Phe
235          275          280          285
236 Phe Asn Gln Ala Leu Ser Ala Phe Leu Ser His Gln Phe Tyr Lys
237          290          295          300
238 Ser Lys Phe Val Ser Tyr Pro Lys His Arg Lys Ala Phe Leu Pro
239          305          310          315
240 Phe Leu Phe
243 <210> SEQ ID NO: 5
244 <211> LENGTH: 330
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <223> OTHER INFORMATION: Incyte ID No.: 474100CD1
252 <400> SEQUENCE: 5
253 Met Pro Glu Met Pro Glu Asp Met Glu Gln Glu Glu Val Asn Ile
254   1          5          10          15
255 Pro Asn Arg Arg Val Leu Val Thr Gly Ala Thr Gly Leu Leu Gly
256          20          25          30
257 Arg Ala Val His Lys Glu Phe Gln Gln Asn Asn Trp His Ala Val
258          35          40          45
259 Gly Cys Gly Phe Arg Arg Ala Arg Pro Lys Phe Glu Gln Val Asn
260          50          55          60
261 Leu Leu Asp Ser Asn Ala Val His His Ile Ile His Asp Phe Gln
262          65          70          75
263 Pro His Val Ile Val His Cys Ala Ala Glu Arg Arg Pro Asp Val
264          80          85          90
265 Val Glu Asn Gln Pro Asp Ala Ala Ser Gln Leu Asn Val Asp Ala
266          95          100          105
267 Ser Gly Asn Leu Ala Lys Glu Ala Asp Phe Phe Phe Phe Phe Val
268          110          115          120
269 Ala Ala Val Gly Ala Phe Leu Ile Tyr Ile Ser Ser Asp Tyr Val
270          125          130          135
271 Phe Asp Gly Thr Asn Pro Pro Tyr Arg Glu Glu Asp Ile Pro Ala
272          140          145          150
273 Pro Leu Asn Leu Tyr Gly Lys Thr Lys Leu Asp Gly Glu Lys Ala
274          155          160          165

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/27/2002  
PATENT APPLICATION: US/09/806,536A      TIME: 18:13:16

Input Set : A:\pto.amc.txt  
Output Set: N:\CRF4\08272002\I806536A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; N Pos. 1530



P4/09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,536A

DATE: 08/27/2002

TIME: 10:33:24

Input Set : A:\pf0610usn-seqlist.txt

Output Set: N:\CRF4\08272002\I806536.raw

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.  
5 LAL, Preeti  
6 GUEGLER, Karl J.  
7 GORGONE, Gina A.  
8 CORLEY, Neil C.  
9 BAUGHN, Mariah R.  
10 TANG, Y. Tom  
11 HILLMAN, Jennifer L.  
12 BANDMAN, Olga  
13 AZIMZAI, Yalda  
14 AU-YOUNG, Janice  
15 YUE, Henry  
16 LU, Dyung Aina M.  
17 YANG, Junming  
19 <120> TITLE OF INVENTION: OXIDOREDUCTASE MOLECULES  
21 <130> FILE REFERENCE: PF-0610 PCT  
C--> 23 <140> CURRENT APPLICATION NUMBER: US/09/806,536  
C--> 24 <141> CURRENT FILING DATE: 2002-08-27  
26 <150> PRIOR APPLICATION NUMBER: 09/167,519; unassigned; 09/204,999; unassigned;  
60/123,911  
W--> 27 <151> PRIOR FILING DATE: 1998-10-06; 1998-10-06; 1998-12-02; 1998-12-02; 1999-10-03  
E--> 29 <160> NUMBER OF SEQ ID NOS: PERL Program  
31 <170> SOFTWARE: 30

Does Not Comply  
Corrected Diskette Needed

ERRORED SEQUENCES



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/806,536 A

DATE: 08/27/2002

TIME: 10:33:26

Input Set : A:\pf0610usn-seqlist.txt

Output Set: N:\CRF4\08272002\I806536.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:27 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:29 M:212 E: (34) Invalid or duplicate Sequence ID Number, Number Of Sequences Unknown  
L:1482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:1500  
L:29 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (30)